

Features

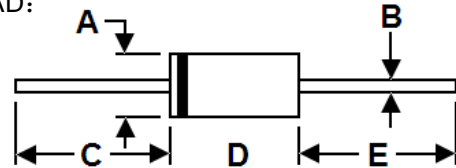
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability



RoHS
COMPLIANT

Package Outline Dimensions

DO-201AD:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	4.8	5.3	0.189	0.209
B	1.2	1.3	0.047	0.051
C	25.4	-	1.0	-
D	7.2	9.6	0.283	0.378
E	25.4	-	1.0	-

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	SR302	SR303	SR304	SR305	SR306	SR308	SR310	SR315	SR320	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum D.C Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	80									A
Maximum Instantaneous Forward Voltage at 3.0A(Note1)	V_F	0.55			0.70		0.85		0.95		V
Maximum Reverse Current @ rated VR $T_J=25^\circ C$ $T_J=100^\circ C$ $T_J=125^\circ C$	I_R	0.5					0.1				mA
		10			5		-				
		-			-		2				
Typical Thermal Resistance	$R_{\theta JC}$	15									°C/W
	$R_{\theta JA}$	50									
Operating Temperature Range	T_J	-55 to +125				-55 to +150					°C
Operating Temperature Range	T_{STG}	-55 to +150									°C

Note: 1、Pulse test: $t_p=300 \mu S$, 1% duty cycle

Ratings and Characteristic Curves

FIG. 1 FORWARD CURRENT DERATING CURVE

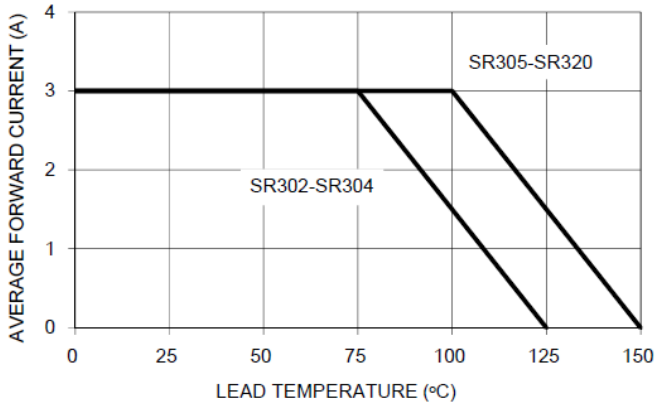


FIG. 2 MAXIMUM FORWARD SURGE CURRENT

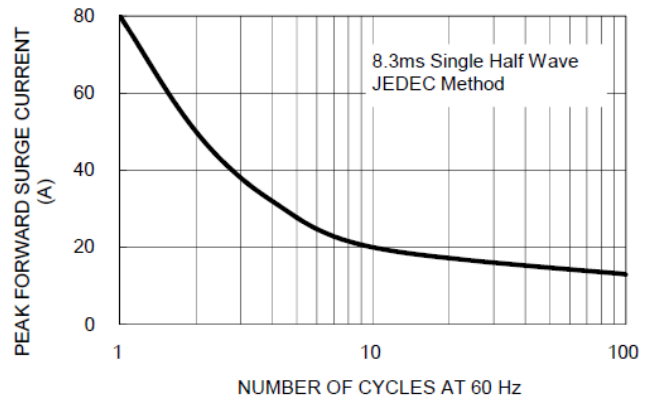


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

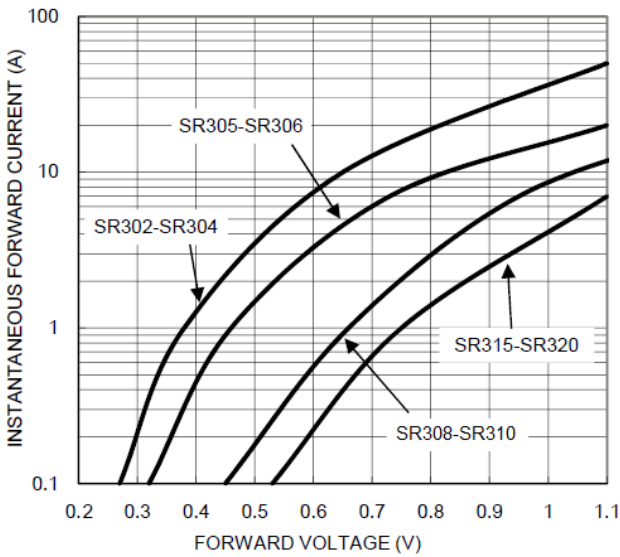


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

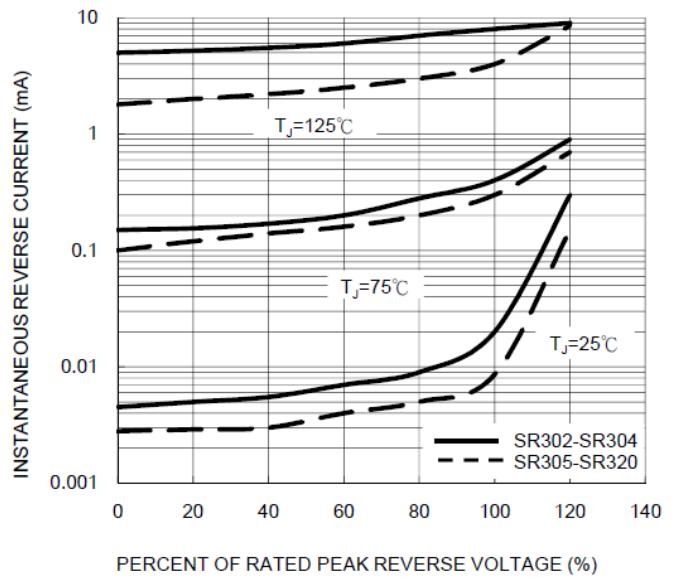


FIG. 5 TYPICAL JUNCTION CAPACITANCE

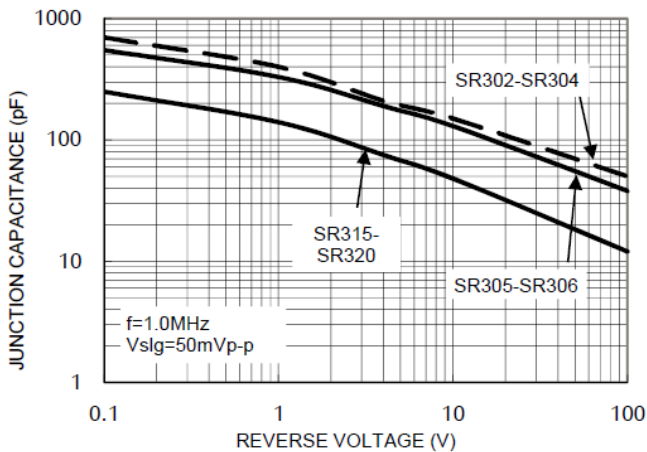
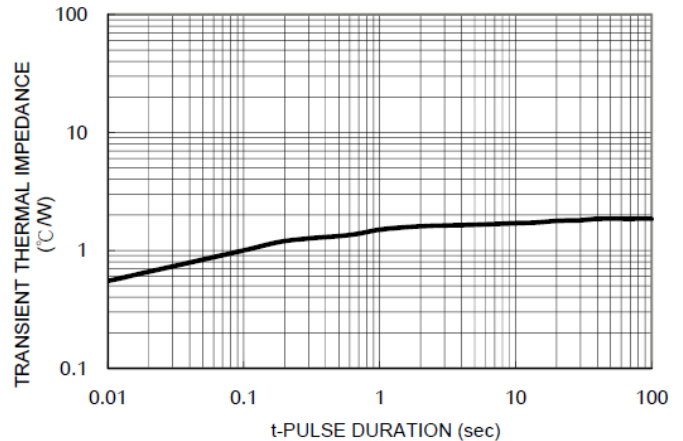


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE





SR302 THRU SR320

3.0 Amp. Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing
SR302~SR320	DO-201AD	0.8K/AMMO box
SR302~SR320	DO-201AD	1.2K/AMMO box
SR302~SR320	DO-201AD	1.2K/13" Paper reel
SR302~SR320	DO-201AD	0.5K/Bulk packing